



안전인증서 Safety Certificate

안전인증번호: HU10934-18004B
(Application No.)

제조업자/수입업자명: Xinsu Global Electronic Co., Limited
(Manufacturer/importer)

주 소: 3rd Floor, No.1 Building, C District, 108 Honghu Road, Yanluo Street, Bao'an District, 518127
(Address) Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA.

제 품 명: 직류전원장치
(Product)

기본모델명: XSG2204090
(Basic Model)

파생모델명 (Series Model):
XSG1205500, XSG1206000, XSG1207000, [이면기재]

정격/안전기준상의 모델구분: 100-240 V~, 50/60 Hz, 2 A Max. Output: 22 Vdc, 4 090 mA
(Rating)

시험기준: K 60950-1(2.0)(2011-12)
(Standard)

본 인증서는

제 조 국 명: 중국

제조업자명: Xinsu Global Electronic Co., Limited

제조공장의 주소: 3rd Floor, No.1 Building, C District, 108 Honghu Road, Yanluo Street, Bao'an District, 518127 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA.
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We issue this Safety Certificate for the above appliances in accordance with Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 07 월 06 일

(Year) (Month) (Day)

한국기계전기전자시험연구원
Korea Testing Certification Institute



※ 이 인증서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

- 전기용품의 안전관리부품 및 재질목록(List of Critical Components)
- 기본모델·파생모델의 내용(Description of the basic and series model)
- 안전인증의 변경 현황(Revisions Status)

안전인증을 받은 자의 유의 사항

Notification for Recipients

1. 본 증명서는 기재된 제조공장에서 생산된 제품으로서 적용된 안전기준에 적합한 경우에 한하여 유효합니다.
(This certificate is valid only when the product meets the safety standards and is produced from the manufacturing factory that states on this certificate.)
2. 안전인증 마크는 본래의 의미와 다르게 사용자가 오해를 일으킬 수 있는 방법으로 광고, 카탈로그 등에 사용하면 인증정지 또는 취소의 사유가 됩니다.
(Cessation or cancellation of the certification may occur if the actual meaning of the Safety Certification Mark is misled to the public by false advertisement on a catalog of the product.)
3. 다음과 같은 사유가 발생할 경우에는 안전인증기관에 안전인증 변경 신청을 하여 안전인증서를 재교부 받아야 합니다.
(In case of the following events, the Safety Certificate shall be reapplied and reissued for revision)
 - 1) 제조자, 대표자, 주소 등 인증서 기재내용의 변경
(Revisions in contents of the certificate such as manufacturer representative, address and etc.)
 - 2) 파생모델의 추가, 변경 또는 삭제 (Additions, changes, or removals of series model)
 - 3) 안전관리 부품의 변경 또는 추가
(Additions or changes in components which are listed on the certificate)
4. 안전인증을 받은 자는 다음 사항을 이행하여야 합니다.
(Recipients of the Safety Certificate shall comply with the followings.)
 - 1) 안전인증 표시 등 인증요건의 유지관리
(Maintaining and preserving the Mark and other certification requirements)
 - * 안전인증을 받기 이전 또는 정지, 취소된 이후 생산된 제품에 안전인증 표시를 하면 법에 의거 처벌을 받게 됩니다.
(It will be punished by the law if the certification mark is used before the issue (or after suspension or cancellation) of the certification.)
 - 2) 자체 검사의 실시 및 그 기록관리 (Self-testing and record keeping)
 - * 안전인증을 받은 자는 제품검사를 철저히 실시하여 제품의 품질이 안전기준에 미달되지 않도록 유의.
(Recipients of the Safety Certificate shall conduct products inspection strictly for products to comply with the safety standards)
5. 안전인증을 받을자는 전기용품 및 생활용품 안전관리법 제 7조에 따라 2년에 1회 정기검사를 실시하여야 한다.
(Recipients of the Safety Certificate shall require to inspect once in two years according to the Article 7 section of the the Electrical Appliances and Consumer Products Safety Control Act.)
6. 인증서(증명서)에는 진위여부 확인을 위해 다음과 같은 사항이 적용되어 있습니다.
 - 1) 문서관리번호 (문서관리번호 노출시 CS홈페이지를 통해 기술문서 내용이 조회 가능함으로 사본 등 제출시 노출되지 않도록 주의하시기 바랍니다.)
 - 2) 시점확인필
 - 3) 2D바코드

안전인증시의 조건: 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
Conditions of Certification : In the production of this product, conduct a self-test and do not miss and change the registered components.

파생모델명

XSG1207500,XSG1265500,XSG1266000,XSG1267000,XSG1464500,XSG1465000,XSG1466000,XSG1504500,XSG1505000,XSG1506000,XSG1604000,XSG1604500,XSG1605000,XSG1684000,XSG1684500,XSG1685000,XSG1803750,XSG1804000,XSG1804500,XSG1805000,XSG1903150,XSG1903420,XSG1903500,XSG1904000,XSG1904500,XSG1904700,XSG1953300,XSG1953340,XSG1953900,XSG1954620,XSG2003000,XSG2003250,XSG2003500,XSG2004000,XSG2004500,XSG2103000,XSG2103500,XSG2104000,XSG2402500,XSG2402700,XSG2403000,XSG2403500,XSG2522000,XSG2522500,XSG2523000,XSG2523500,XSG2552000,XSG2552500,XSG2553000,XSG2553500,XSG2802000,XSG2802500,XSG2803000,XSG2902000,XSG2902500,XSG2903000,XSG2922000,XSG2922500,XSG2923000,XSG2942000,XSG2942500,XSG2943000,XSG3002000,XSG3002500,XSG3003330,XSG3202000,XSG3202500,XSG2002500,XSG2102500,XSG2402000,XSG2403750,XSG3001500



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(Receipt No)

1. 기본모델 · 파생모델의 내용 (General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.

(Information on certified basic model product is as follow)

구 분 (Section)	내 용 (Description)
용도 (Normal use)	The equipment was designed to be used for converting AC main voltage to DC low voltage.
내부구조 (Internal construction)	Consisting of reinforced insulation or double insulation between the primary circuit and SELV circuit.
외부구조 (External construction)	Provided with plastic enclosure having min. V-1 flammability and appliance inlet.
기타(others)	Class II.

1.2 전기용품의 표시 : 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark : Marking shall comply with the Article 20 of the Enforcement Rule of the Electrical Appliances and Consumer products Safety Control Act.)

1.3 등록모델 (Registered Models)

구분 (Class)	모 델 명 및 정 격 (Model / Rating)		기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	XSG2204090	100-240 V~, 50/60 Hz, 2 A Max. Output: 22 Vdc, 4 090 mA	
파생모델 (Variant model)	XSG1205500		Identical to the basic model except for the output rating(12 Vdc, 5.5 A)
	XSG1206000		Identical to the basic model except for the output rating(12 Vdc, 6 A)
	XSG1207000		Identical to the basic model except for the output rating(12 Vdc, 7 A)
	XSG1207500		Identical to the basic model except for the output rating(12 Vdc, 7.5 A)
	XSG1265500		Identical to the basic model except for the output rating(12.6 Vdc, 5.5 A)

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	XSG1266000	Identical to the basic model except for the output rating(12.6 Vdc, 6 A)
	XSG1267000	Identical to the basic model except for the output rating(12.6 Vdc, 7 A)
	XSG1464500	Identical to the basic model except for the output rating(14.6 Vdc, 4.5 A)
	XSG1465000	Identical to the basic model except for the output rating(14.6 Vdc, 5 A)
	XSG1466000	Identical to the basic model except for the output rating(14.6 Vdc, 6 A)
	XSG1504500	Identical to the basic model except for the output rating(15 Vdc, 4.5 A)
	XSG1505000	Identical to the basic model except for the output rating(15 Vdc, 5 A)
	XSG1506000	Identical to the basic model except for the output rating(15 Vdc, 6 A)
	XSG1604000	Identical to the basic model except for the output rating(16 Vdc, 4 A)
	XSG1604500	Identical to the basic model except for the output rating(16 Vdc, 4.5 A)
	XSG1605000	Identical to the basic model except for the output rating(16 Vdc, 5 A)
	XSG1684000	Identical to the basic model except for the output rating(16.8 Vdc, 4 A)
	XSG1684500	Identical to the basic model except for the output rating(16.8 Vdc, 4.5 A)
	XSG1685000	Identical to the basic model except for the output rating(16.8 Vdc, 5 A)
	XSG1803750	Identical to the basic model except for the output rating(18 Vdc, 3.75 A)

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	XSG1804000	Identical to the basic model except for the output rating(18 Vdc, 4 A)
	XSG1804500	Identical to the basic model except for the output rating(18 Vdc, 4.5 A)
	XSG1805000	Identical to the basic model except for the output rating(18 Vdc, 5 A)
	XSG1903150	Identical to the basic model except for the output rating(19 Vdc, 3.15 A)
	XSG1903420	Identical to the basic model except for the output rating(19 Vdc, 3.42 A)
	XSG1903500	Identical to the basic model except for the output rating(19 Vdc, 3.5 A)
	XSG1904000	Identical to the basic model except for the output rating(19 Vdc, 4 A)
	XSG1904500	Identical to the basic model except for the output rating(19 Vdc, 4.5 A)
	XSG1904700	Identical to the basic model except for the output rating(19 Vdc, 4.7 A)
	XSG1953300	Identical to the basic model except for the output rating(19.5 Vdc, 3.3 A)
	XSG1953340	Identical to the basic model except for the output rating(19.5 Vdc, 3.5 A)
	XSG1953900	Identical to the basic model except for the output rating(19.5 Vdc, 4 A)
	XSG1954620	Identical to the basic model except for the output rating(19.5 Vdc, 4.5 A)
	XSG2003000	Identical to the basic model except for the output rating(20 Vdc, 3 A)
	XSG2003250	Identical to the basic model except for the output rating(20 Vdc, 3.25 A)

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	XSG2003500	Identical to the basic model except for the output rating(20 Vdc, 3.5 A)
	XSG2004000	Identical to the basic model except for the output rating(20 Vdc, 4 A)
	XSG2004500	Identical to the basic model except for the output rating(20 Vdc, 4.5 A)
	XSG2103000	Identical to the basic model except for the output rating(21 Vdc, 3 A)
	XSG2103500	Identical to the basic model except for the output rating(21 Vdc, 3.5 A)
	XSG2104000	Identical to the basic model except for the output rating(21 Vdc, 4 A)
	XSG2402500	Identical to the basic model except for the output rating(24 Vdc, 2.5 A)
	XSG2402700	Identical to the basic model except for the output rating(24 Vdc, 2.7 A)
	XSG2403000	Identical to the basic model except for the output rating(24 Vdc, 3 A)
	XSG2403500	Identical to the basic model except for the output rating(24 Vdc, 3.5 A)
	XSG2522000	Identical to the basic model except for the output rating(25.2 Vdc, 2 A)
	XSG2522500	Identical to the basic model except for the output rating(25.2 Vdc, 2.5 A)
	XSG2523000	Identical to the basic model except for the output rating(25.2 Vdc, 3 A)
	XSG2523500	Identical to the basic model except for the output rating(25.2 Vdc, 3.5 A)
	XSG2552000	Identical to the basic model except for the output rating(25.5 Vdc, 2 A)

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	XSG2552500	Identical to the basic model except for the output rating(25.5 Vdc, 2.5 A)
	XSG2553000	Identical to the basic model except for the output rating(25.5 Vdc, 3 A)
	XSG2553500	Identical to the basic model except for the output rating(25.5 Vdc, 3.5 A)
	XSG2802000	Identical to the basic model except for the output rating(28 Vdc, 2 A)
	XSG2802500	Identical to the basic model except for the output rating(28 Vdc, 2.5 A)
	XSG2803000	Identical to the basic model except for the output rating(28 Vdc, 3 A)
	XSG2902000	Identical to the basic model except for the output rating(29 Vdc, 2 A)
	XSG2902500	Identical to the basic model except for the output rating(29 Vdc, 2.5 A)
	XSG2903000	Identical to the basic model except for the output rating(29 Vdc, 3 A)
	XSG2922000	Identical to the basic model except for the output rating(29.2 Vdc, 2 A)
	XSG2922500	Identical to the basic model except for the output rating(29.2 Vdc, 2.5 A)
	XSG2923000	Identical to the basic model except for the output rating(29.2 Vdc, 3 A)
	XSG2942000	Identical to the basic model except for the output rating(29.4 Vdc, 2 A)
	XSG2942500	Identical to the basic model except for the output rating(29.4 Vdc, 2.5 A)
	XSG2943000	Identical to the basic model except for the output rating(29.4 Vdc, 3 A)

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	XSG3002000	Identical to the basic model except for the output rating(30 Vdc, 2 A)
	XSG3002500	Identical to the basic model except for the output rating(30 Vdc, 2.5 A)
	XSG3003330	Identical to the basic model except for the output rating(30 Vdc, 3 A)
	XSG3202000	Identical to the basic model except for the output rating(32 Vdc, 2 A)
	XSG3202500	Identical to the basic model except for the output rating(32 Vdc, 2.5 A)
	XSG2002500	Identical to the basic model except for the output rating(20 Vdc, 2.5 A)
	XSG2102500	Identical to the basic model except for the output rating(21 Vdc, 2.5 A)
	XSG2402000	Identical to the basic model except for the output rating(24 Vdc, 2 A)
	XSG2403750	Identical to the basic model except for the output rating(24 Vdc, 3.75 A)
	XSG3001500	Identical to the basic model except for the output rating(30 Vdc, 1.5 A)

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Plastic enclosure	TEIJIN LIMITED RESIN AND PLASTIC	LN-1250G(#)(*)	V-0, 115°C, min. thickness: 2.4 mm	UL E50075
(Alternative)	SABICINNOVATIVE PLASTICS US L L C	940(f1)	Rated V-0, min.thickness 2.1mm,120 °C	UL E121562
(Alternative)	SABIC INNOVATIVE PLASTICS B V	LTA6020(f1)	Rated V-0, min.thickness 2.1mm,120 °C	UL E45329

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alternative)	TRINSEO(HONG KONG) LTD	EMERGE PC8600(a)	Rated V-0, min.thickness 2.1mm,120 °C	UL E206114
Appliance Inlet (JK1)	ZheJiang BeiEr Jia ElectronicCo., Ltd.	ST-A03-005	2.5 A, 250 Vac	KC HU04062-7003
(Alternative)	Yueqing Leci Electronics Co., Ltd.	DB-8	2.5 A, 250 Vac	KC SU04106-8002
PCB	Interchangeable	Interchangeable	V-0 or better, min.130 °C	UL
Current Fuse(CF1)	Dongguan Anlu Electronics Technology Co., Ltd.	AMT T3.15A 250V	T3.15A L, 250VAC	KC SU05055-17002
(Alternative)	Suzhou Walter Electronic Co., Ltd.	2010 3.15A 250V	T3.15A L, 250VAC	KC SU05010-12002
X-Capacitor(C1)	Shenzhen Yixingjie Capacitors Co., Ltd.	MKP X2 310VAC 0.47uF 40/110/56B	X2 type, max.0.47 uF, min.310 Vac, 110 °C	KC SU03079-16003
(Alternative)	Shantou High- New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	X2 type, max.0.47 uF, min.310 Vac, 110 °C	KC SU03031-12003
Y-cap(C12B, C12A,)Y1 type)	Xiangtai Electronics (Shenzhen) Co., Ltd.	YO E 1000pF	Max. 2200pF, Min. 400Vac,125 °C	KC SU03062-13001
(Alternative)	Dongguan City Dafu Electronics Co., Ltd.	CT7 Y1 Series	Max. 2200pF, Min. 250Vac,125 °C	KCSU03074-14002
Alternative)	Shantou High- New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CD	Max. 2200pF, Min. 250Vac,125 °C	KCSU03031-7002
Optocoupler (IC2)	EVERLIGHT ELECTRONICS CO LTD	EL817	Dti=0.5mm, int. dcr=6.0mm, ext. dcr=8.0mm, minimum 100 degree C	VDE 132249UL E214129

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alternative)	BRIGHT LED ELECTRONICS CORP	BPC 817	Dti=1.0mm, int. dcr=5.0mm, ext. dcr=7.0mm, minimum 100 degree C	VDE 40007240UL E236324
(Alternative)	SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817	Dti>0.4mm, int. dcr≥ 4.0mm,ext. dcr ≥ 7.6mm, minimum 100 degree C	VDE 40029733UL E323844
(Alternative)	Sharp Corporation Electronic Components and Devices Division	PC817	Ext. dcr≥6.4mm, 100°C	VDE 40008087UL E475185
Insulation tape over primary heat sink	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C	UL E165111
BleederResistors (R1)	Interchangeable	Interchangeable	1M , 1/4W	Tested with appliance
Bridge Diodes(BG1)	Interchangeable	Interchangeable	Min.4.0A, min.800V	Tested with appliance
E-capacitor(C7, C8)	Interchangeable	Interchangeable	100μF, min.200V, 105°C	Tested with appliance
Current Sensor Resistors (R6)	Interchangeable	Interchangeable	0.1 ohm, min.2W	Tested with appliance
MOSFET(M1)	Interchangeable	Interchangeable	4V, 600 A MIN	Tested with appliance
Line filter (L1)	SHENZHEN XINDAHUI ELECTRONICS CO., LTD	EF20	Min. 10mH, 130°C	Tested with appliance
Line Choke (L2)	SHENZHEN CHENG YEXIN ELECTRONIC TECHNOLOGY CO., LTD	T60-26	Min. 40uH, 130°C	Tested with appliance
Transformer (PT1)	SHENZHEN XINDAHUI ELECTRONICS CO., LTD.	TR-120-T02	Class B	--

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Bobbin	CHANG CHUN PLASTICS CO LTD	T200NA	V-0, 150°C	UL E59481
Triple insulation wire	TOTOKU ELECTRIC CO LTD	TIW-E	130°C	UL E166483
Insulation tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1 (b)	130°C	UL E17385
Magnet wire	TA YA ELECTRIC WIRE & CABLE CO LTD	LZ-UEWB	130°C	UL E84201
Output cord	SHENZHEN DONG JU WIRE & CABLE CO LTD	1185	PVC, VW-1,300V, min.18AWG, min.80°C	UL E189674
(Alternative)	Interchangeable	Interchangeable	PVC, VW-1,300V, min.18AWG, min.80°C	UL

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/12/04	기본+파생모델등록(Basic + Series Model)
2023/07/06	주소(제조사)

4. 기타(Carefully Informed Note)

- 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될수 있습니다.

The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.

기 술 문 서

Technical Document

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안전인증번호 : HU10934-18004B
(Certificate No)

접수번호 : KCA2023-08978
(Receipt No)

- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제 11조에 따라 안전인증이 취소될수 있습니다.

If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.

- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.

Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.

- 4) 조건부 인증사항 (Conditional certification items) :

